

ABSTRACT OF THE DISCLOSURE

Into an internal circuit to operate in a high-frequency band, there is incorporated a protective circuit of a multistage connection which is
5 constructed to include a plurality of diode-connected transistors having a low parasitic capacity and free from a malfunction even when an input signal higher than the power supply voltage is applied. Into an internal circuit to operate in a low-frequency band,
10 there is incorporated a protective circuit which is constructed to include one diode-connected transistor. The protective circuits include two lines of protective circuit, in which the directions of electric currents are so reversed as to protect the
15 internal circuits against positive/negative static electricities.